

P.O. Box 30529

Cleveland, Ohio 44130

Emergency Communications
for:

COUNTY OF CUYAHOGA





Div. of

Emergency Assistance & Planning

Not for profit Ohio corporation tax-exempt under IRS Section 501(c)(3)

Code Practice Sundays @ 20:00 on 145.29 6,9,13,16,20,24WPM

North Coast Communicator

Informal Voice Nets Sundays @ 21:00 on 145.29 Saturdays @ 10:00 on 28.4

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STEVE STROH N8GNJ EDITOR

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DROPPED BITS

Editorial by Steve Stroh N8GNJ

Well, it was short, but very sweet. As many of you already know, this will be the last issue of the Communicator that I will be editing. My wife Tina and I will be relocating to the Seattle Washington area, most likely in mid November. Quite simply, we were made an offer we couldn't refuse. When we investigated whether we could live and work in the area when we vacationed there in mid September, we absolutely fell head over heels in love with the area. A comment made recently by another newsletter editor who I admire has come to mind recently. Do what you have to do. Giving up the Communicator and North Coast is what I have to do, not what I want to do. I've greatly enjoyed my brief stint as Editor, and will miss the chance to try out some of the things I had planned for it.

I certainly hope someone is willing to pick up the Editorship of the Communicator other than Rick. Rick has too many responsibilities as of late, and his offer of handling the actual publishing chores is a very generous one, requiring the editor only to assemble the Communicator. I would hate to see the Communicator go the way of some other amateur club newsletters- one pagers, or newsletters put together by an editor that is obviously under duress.

The process of putting the Communicator together is a rather simple one (in my opinion) if you have access to an IBM PC type computer- the PC's large memory and reasonable amount of disk space make it relatively easy to assemble each issue with almost any PC word processing program. Although the three issues I have edited are on the large side because there was a lot of catching up to do from the summer, future issues shouldn't be all that large- 10 to 20 sides per issue. Most of each issue is submitted material- minutes, member articles, reprints, news of club activities, etc. So please, if you have the time, and the tools, and a desire to help the club continue to grow and prosper, please volunteer to edit the Communicator. It really isn't a bad job!

Since I am no longer Editor of the Communicator as of the completion of this issue, please send all submissions for future issues of the Communicator to the club's P.O. box- P.O. Box 30529, Cleveland, Ohio 44130.

MANY THANKS TO THOSE THAT HELPED AT THE 1987 GOLD CUP HOCKEY TOURNAMENT Rick Wells K8SCI

The tournament started at 8:00 A.M. Friday, September 25th and ended the afternoon of Sunday, September 27. Although there were few volunteers to help with the event, causing very long periods of time for others, I would like to thank the following who volunteered their time and equipment: Ron KB8BEB, Ken N8EIJ, Pauline KA8FOE, Paul N8HOB, Gene N8IUU, Karen KA8LIH, Glenn WD8OMW, Rick K8SCI, and Russ WB8UPA. Also to Ray KA8BPU who volunteered but then was not needed as the tournament schedule changed, eliminating his assigned position at that rink on Friday morning.

There were four calls made to Rescue Squads for injuries that occurred at the event as well as much coordination for the tournament was able to be accomplished through those that volunteered. The Winterhurst Hockey Association at the Winterhurst rink in Lakewood, and all of the Tournament personnel wish to express their great appreciation for the help that they received from the North Coast Amateur Radio Club.

LATEST 8TH DISTRICT CALLSIGNS

The callsigns for the 8th call district as of November 1, 1987 are as follows: Novice: KB8DGH, Technician/General: N8IVJ, Advanced: KE8OA, Extra: NY8Q.

NCARC ARRL VE EXAM REPORT FOR OCTOBER 10, 1987

Dan Sarama KB8A

12 applicants took 23 elements passing 15 of them resulting in 8 upgrades, 1 code certificate, and 1 new novice. Congratulations to the following NCARC members who upgraded: Bob K8AAI from Advanced to Extra, Nick KB8BDY from Novice to Technician, and Warren KB8DEP from Novice to Technician.

Thanks to the following VE's who assisted me: Glenn AF8C, Bob W8IO, Mike K9SSL, Tim NR8T, and Fred WB8UDA, and to the following helpers: Mary Lou N8ILL and Rick K8SCI who volunteered their time and expertise to make these exams possible.

The next NCARC ARRL VE exam will be Saturday, December 12, 1987.

FOX HUNT REPORT FOR OCTOBER 10, 1987

Rick Wells KASCI

The fox (Rick K8SCI) hid in the back of Pauline KA8FOE's Uncle's red pick-up truck under some sleeping bags in the cap. Running 5 watts into a 1/4 wave mag-mount antenna upside down (with black tape covering it) on the bottom of the truck's frame, he parked at the North Olmsted Police Station parking lot.

#1 hunter was Bob K8DTS and Amy in 27 minutes, #2 was Dave N8ETY in 62 minutes, #3 was Dan WD8AJF and Ann KA8ZEP at 73 minutes squeaking in about 10 seconds ahead of #4 Ted AA4KV and Bob K8AAI.

Bob will be the Fox for the next NCARC Fox-Hunt on November 14. Everyone is welcome to participate. All hunters meet at the rear of the North Olmsted branch of the Cuyahoga County Public Library (on Butternut Ridge Road). Be there early enough to set up any equipment necessary so that the hunt can start at 7:00 P.M.

VOLUNTEERING FOR PUBLIC SERVICE OR CLUB NEEDS

Rick Wells K8SCI

I am finding it quite disturbing that very few NCARC members are volunteering for the various Public Service events that occur throughout the year.

This is also true for the yet unfilled Meeting Program Chairman position, or for volunteers to help others in existing positions.

After the program at the October meeting (Chuck K8RSH discussing 10-10 International), everyone seemed to disappear within a few minutes leaving all the clean up duties with myself and my son Gene N8IUU.

It seems that some out there (who seem to be quick to criticize the efforts of others, or the various activities, or lack of activities of the club) have the time to make the noise but not the time to help where they can. I only ask that if you cannot volunteer to be involved directly, please try to understand what others are going through in doing some of these activities. Do not ever assume that things are always under control within any club function. If you do not like what you see or don't see happening in the club, then step forward and volunteer to help make a difference.

CANDY-BAR FUND RAISING EFFORT REPORT

Rick Wells K8SCI

I am pleased to report that as of October 2, 1987 the Club's effort thus far has raised \$1,956.00 for the club treasury. There are still a few cases of candy bars in stock at Dan KB8A's home. If you can help the fund raising effort by buying or selling any of these last remaining cases at 1/2 price (\$15.00 for a case of 30 bars), please contact: Dan KB8A or Mary Lou N8ILL as soon as possible at 267-5083.

The fund raiser for the club is now projected at \$2,185.00 (when the last bar is sold) for the club treasury (\$700.00 ahead of last year). My sincere thanks goes out to everyone who helped this long, but successful campaign. When every last candy bar is sold, a complete list of those who helped (listed in order of total monies collected) will be printed in the Communicator.

SORRY- NO MINUTES OF THE OCTOBER TRUSTEE AND GENERAL MEETINGS THIS ISSUE...

Unfortunately, the minutes of the NCARC October 1 Trustee and General meeting were not received by the Editor by this issue's deadline (October 15). Hopefully the minutes be printed in the December issue.

TECHNICAL COMMITTEE REPORT (given at the October 1 General Meeting) Dave Kifer N8ETY

Tom N8FQQ and Rick K8SCI did the necessary work on the repeater Power Amplifier and power supply. The machine's power supply needs to be rebuilt or replaced. Dan N8ETQ is working on a Lambda Power Supply [donated by Tim NR8T in non working condition- Ed.] which will be able to handle the repeater's needs. Tom also readjusted the encoder circuit and it is now less susceptible to falsing. Tom wants to point out that the tuning capacitors are extremely touchy and were very hard to tweak (possibly due to excessive adjusting).

The Technical Committee will be having a meeting in October. If anyone is interested in attending, please listen the to the Sunday Evening net for the date and time. Dan N8ETQ will be working on the tone alert circuit for the repeater. I have found a new chip available from Radio Shack which is basically an FM receiver on a chip. I hope to build up this circuit soon and try it for our Tone Alert system.

As of this morning, I haven't spoken to Steve NO8M regarding converting a Radio Shack Weathercube for the amateur frequencies.

PACKET RADIO SOFTWARE FOR RADIO SHACK COLOR COMPUTER

From Gateway, the ARRL Packet Radio Newsletter, September 25, 1987

NEW COLOR COMPUTER PACKET RADIO SOFTWARE

Monty Haley WJ5W has written two packet radio communication programs for the Radio Shack/Tandy Color Computer. COCOPACT is a packet radio terminal program that runs up to 9600 baud with split-screen display, multiple connection capabilities, on-screen status indicators, and many other features. COCO PBBS provides PBBS capabilities for the Color Computer that are comparable to the WORLI PBBS. Both programs are available from SPEC-COMM Software, P.O. Box H, Lowden, Iowa 52255. Send a business-size SASE for more information and write "PACKET" on the outside of the envelope for special documentation.

INTERESTING PC PUBLIC DOMAIN HAM RADIO SOFTWARE

Steve Stroh N8GNJ

Many of you might have read Jim Nestor N8GJR's weekly computer column in the <u>Plain Dealer</u> recently in which he mentioned an excellent source of public domain amateur radio software for the IBM PC and clones. That source is Public Brand Software (P.O. Box 51315, Indianapolis, Indiana 46251, 800/IBM-DISK). The amateur radio disks are HR1.2 (HAM RADIO 1), HR3.2 (HAM RADIO 3), HR4.1 (PACKET RADIO), HR6.0 (HAMRAD), AND HR7.0 (HAM RADIO 4). Each disk is \$5.00. Call them on their toll free number and request their catalog. I found utility programs in their catalog that I haven't seen anywhere else.

MOVING SALE

Two 5 foot tall 19" equipment racks. Reasonable shape. Price is right- free to first person that comes and gets them. If no one wants them, they'll be on the curb when we leave for Seattle in November. Computer desk- small put-it-together-yourself type. Ideal for Commodore-64 or Radio Shack Color Computer- best offer over \$15.00. Butternut 4BTV- used, excellent condition- \$25.00. Contact Steve Stroh N8GNJ, 917 Salem Avenue, Elyria, 1-365-2793.

NORTH COAST AMATEUR RADIO EMERGENCY SERVICES AND PACKET Steve Stroh N8GNJ

This article was a result of a conversation that I had with Rick Wells K8SCI about the lack of participation by Packet Radio equipped amateur radio operators in the October 17, 1987 simulated disaster drill. Rick's question was "Why didn't more packeteers volunteer?" This is one packeteers opinion.

- 1. What has the North Coast Amateur Radio Club done for packeteers, other than invite them to drag their equipment out and show it off? Not much. The Lake Erie Amateur Radio Association (LEARA), the Cuyahoga Amateur Radio Society (CARS) and Medina 2 Meters (M2M), on the other hand, sponsor and maintain packet digipeaters. Many packeteers (such as myself) belong to some or all of these clubs solely support packet. Hard as it may be to believe, many packeteers have never even heard of NCARC. But, they're sure aware of LEARA, CARS, and M2M. If you want to find packeteers, you'd better look to those clubs and ask for their help.
- 2. Packet, unlike 2m FM, requires the use of two other pieces of equipment- A TNC which is relatively small and can run off of 12 volts, and a computer or terminal, which isn't so small, and rarely can run off 12 volts. This means a portable packet station almost requires the use of a laptop (such as Tandy Model 100), or portable computer (such as a Compaq). To date, there has been very little demand for portable packet stations in this area. If there were a need, such as a bimonthly drill, then maybe some portable packet stations would be put together.
- 3. On the rare occasion that packet is requested, and packeteers do come out to help (such as the Simulated Shuttle Mission earlier this year), those organizing the event who request packet, don't understand it, don't use it, and for the most part completely ignore it! People, especially packeteers, tend not to respond to a second request if they are treated like that the first time (fool me once shame on you, fool me twice shame on me). If you are serious about using packet, you'd better do some reading and understand its capabilities and weaknesses. Packet is a tool, just as a 2m portable is. You don't have to be a computer nut to use packet (although admittedly that does help) and use it effectively. But, you do have to understand how it can be used.
- 4. There simply aren't that many packeteers out there compared to the number of 2m FM users. There are even fewer who are equipped with portable packet stations. The majority of packeteers don't monitor the local repeaters much, if at all. There is <u>no</u> comprehensive listing of packeteers to call out in case of an emergency. It will take time to get a "packet call up list" together, but it will be well worth it.
- 5. Packet isn't "the wave of the future", or a "really neat idea"- it's a valuable tool that can be used right now! If the NCARES emergency plan doesn't now include packet to handle the high volume traffic, it should. Your pleas to packeteers to get involved will carry much more weight if you can show them what their mission will be. Once you have them hooked, use them, and use them EFFECTIVELY.

To summarize then, 1) do something <u>useful</u> for packeteers, like putting up a digipeater. 2) Realize that there aren't many portable packet stations out there. When you find one, treat them nice, because they're rare. 3) If you do talk packeteers into coming out, you better use them effectively or they won't come back next time. 4) Get a list together of those packeteers that <u>can</u> help effectively. You'll have to actively search for them, but once you have a list, you should be able to field an effective packet communications system. 5) Take packet <u>seriously!</u> It's not a fad, or just a hobby for the computer jocks, it's a tool just like any other with its own strengths and weaknesses.

If the chips are really down, and the main communication lines are down, it's really tough to move large amounts of information via a HF voice link. It's even tougher to move it using CW. Not that those two modes can't move traffic, it's that they have a very hard time moving large amounts of traffic. Packet is ideally suited for that purpose. The packeteers in Central Ohio have convinced state officials in charge of emergency communications of that. The Ohio DSA headquarters has budgeted for a complete packet system that will be able to link into the Ohionet packet network. I won't belabor why Ohionet is such an important resource for emergency communications, but the people who've handled real disasters (such as the tank car derailment in

Dayton) know how effective packet can be <u>and are funding construction of Ohionet links!</u> It would be refreshing if the NCARES committee, and the Cuyahoga County Department of Emergency Assistance and Planning also understood, and funded an Ohionet node in the Cleveland area. Then you'd be talking seriously about packet. Until then, call LEARA and ask them to handle the packet duties.

If this article moved you at all, and you'd like to learn more about packet, feel free to contact Tom Kryza KB8CI at 671-7199. He'll be happy to help you get started.

MUCH MISCELLANEOUS "STUFF" FOR SALE

TI-733KSR Printing Terminal, excellent condition- \$35

Bruel & Klaer 2604 Lab grade microphone-amplifier (4), very good condition- \$35

Lambda rack mount power supplies: 28M 200-325 volt 100mA- \$15, 29M 100-200V 100mA- \$15

GE ST-4 sweep generator- \$15

Dymec 2460A, HP-2470 (4) amplifier modules, clean- \$20 each

HP 11203A BCD-input Interface for 9812/9820 calculators

Bogen-LSI 3RBA Pagemaster Encoder- \$10

Tektronix plugins: CA, (4), 53/54 vertical dual trace, R xstr-risetime, 21, 22 time base, fair- \$20 each

Tektronix 310/310A manuals- \$5 each

Tektronix 551 dual beam scope with built-in time base and two Type L plugins- \$60

Ampex VR-1200 manual set- \$50

Mura-Thermy, thermometer probe for VOM's (2)- \$5 each

Heath AA-80 10-watt mobile audio PA, mint- \$30

Cinch #5-142 barrier strip, 8 cartons of 20 each

UTC S-31 (2)- \$5 each

Triad C-80U 6mH, 40A (3)- \$20 each

Thordarson T6F50 Filament Transformer, 5V 10A 12KV insulation! (2)- \$20 each

Miller line filter chokes D7826 5A- \$15

D7828 20A- \$20

Sam's Photofacts Auto Radio Series, Volumes 28 and 32- \$5 each

DEC "Logic Handbooks" from 1966-76- various

DEC modules: W,R,S,B,A series- various

NIM extention cable on 1W module- \$25

AMP Termi-point gun #69526-2 with mandrel for DEC logi-blok, with 3,000 gold clips

TTY: 1" perf-tape, large quantity

New parts for ASR33 maintenance- inquire

MOS organ divider chips, 14 pin DIP, Philco pL4CO7C, 7-octave (170 pieces)

Op-amps, rare early types: DDC D-8, D-6, Philbrick/Nexus #1006, P85AH, PP65AU, Zeltec Zel-1, Analog Devices AD106

Crystal Diodes: WE-444-A (900)

Tubes: 1L4, 1R5, 2D21, 3AP1, 4C35/6268, 5C22, 5Y3, 6AC7, 6AF6, 6AG7, 6J5, 6J7, 6Q5G, 6SC7, 6SJ7, 6U5, 12J5, Eimac Y-152, WE 397-A, 416B, 416C, 417A-5842, 807, GL-5550, GL-5558, WL-5685-C6J, 6159W, 6360, 6883, WL-7740, 8233, 826.

All unreasonable and innovative offers considered.

Bob Leskovec K8DTS 216/368-4016 days

[whew! - Ed.]

HEATHKIT KEYER FOR SALE

Heathkit Ultra Pro CW keyboard for sale. Less than two years old. Comes with AC adapter. Make offer. Contact Tom Rudman KD8EX at 933-8753 or on the NCARC 145.29 repeater.

Oct 21, 1987

North Coast Amateur Radio Club General Membership Roster

	Call	CL	Name	Street Address	City and State	Telephone	
001.	KB8A	E	Dan Sarama	15591 Rademaker Blvd.	Brook Park, OH 44142	267-5083	
002.	KBAAI	Ε	Bob Turek	2150 W. 105th St.	Cleveland, OH 44102	- UL	
003.	WL TAEC	G	Tom Tetzlaff	23 Nelson Dr.	Silver Bay, MN 55614	-	
004.	KB8AII	T	Pat Lavelle	16532 St. Anthony Lane	Cleveland, OH 44111	252-0327	
005.	WD8AJF	Α	Dan Wadsworth	11028 Hawke Rd.	Columbia Station, OH 44028	1-748-2816	
006.	NBATV	Α	Jerry Jarze	9261 Nicholes Rd.	Freedom Twp., OH 44288	-	
007.	NBAUH	G	Dave Kersten	2197 McKinley Ave.	Lakewood, OH 44107	221-6740	
008.	K8AZ	Ε	Tom Lee	7275 Surrey Lane	Chesterland, OH 44026	729-8104	
009.	KK8B	Ε	Denny Filka	6324 Mandalay Dr.	Parma Hts., OH 44130	884-1175	
010.	KB8BBU	N	Jerry Hess	3682 W. 140th St.	Cleveland, OH 44111	252-0747	
011.	KB8BBZ	T	Edmund Smith	6100 Wallace Blvd.	N. Ridgeville, OH 44039	1-327-9285	
012.*	KB8BDY	T	Nick Szabo	6142 Eavenson	Brook Park, OH 44142	- UL	
013.	KB8BEB	T	Ron Deatherage	28410 Magnolia Dr.	North Olmsted, OH 44070	235-2882	
014.	KA8BJA	A	Frank Stevison	32137 Dickerson Rd.	Willowick, OH 44094	944-4843	
015.	KE8BN	Α	Mark Dunkel	27500 Detroit Rd.	Westlake, OH 44145	835-0761 UL	
016.	KB8BNC	G	Ron Park	6460 Brecksville Rd.	Independence, OH 44131	- UL	
	KB8BPR	N	Patricia Walker	1204 Tulip Ct.	Brunswick, OH 44212	225-1744 UL	
018.	KB8BSC	T	John Kilner	13749 Bagley Rd.	Middleburg Hts., OH 44130	845-0546 UL	
019.	NBBTB	A		14106 Terminal Ave.	Cleveland, OH 44135	476-2939	
020.	K8BVI	A	Art Anzic	28491 Elder Dr.	North Olmsted, OH 44070	235-4077	
021.	AE8C	Ε	Sy Maruszan	4207 Kenmore Ave.	Parma, OH 44134	886-3712	
022.	W8CDL	G	Rev. David Vizsolyi	9183 Broadview Rd.	Broadview Hts., OH 44147	526-1177	
023.	WBCEJ	A		5579 Nathan Ave.	Parma, OH 44130	885-3303	
024.	WBCEM	A	Chuck Perry	4769 Columbia Rd., #204	North Olmsted, OH 44070	777-3157	
025.	W8CHA	G	Steve Molnar	15721 Westdale Ave.	Cleveland, OH 44135	252-7019	
026.	KB8CI	A	Tom Kryza	10620 Fidelity Ave.	Cleveland, OH 44111	671-7199	
027.	KB8CJJ	T	Walt Fedrowiz	17114 Laverne Ave.	Cleveland, OH 44135	251-0817 UL	
028.	KB8CJK	G	John Kassimatis	1547 Canterbury Rd.	Westlake, OH 44145	835-4643	
029.	KB8CJP	T	Dave Hruska	7710 Lucerne Dr.	Middleburg Hts., OH 44130	826-4213	
030.	KB8CJQ	N	Starrett Rose	4955 Lansing Dr.	North Olmsted, OH 44070	777-3380	
031.	NBCKV	A	Paul Langendorfer	7784 Columbia Rd.	Olmsted Falls, OH 44138	235-1458	
032.	KABCKZ	A	Bill Jones	11313 Linnet Ave.	Cleveland, OH 44111	941-3850 UL	
033.	NBCQD	G	Bill Maerkle	22940 Mastick Rd.	Fairview Park, OH 44126	779-7311	
034.	KBCVZ	r	Ed Hilderbrand	4110 Fenn Rd.	Medina, OH 44256	1-723-2718	
035.	WBCWT	A	Ken Good	5103 Broadway Ave.	Lorain, OH 44052	1-233-6510	
036.	NBDAD	T	Barbara Ernest	12313 Kensington Ave.	Cleveland, OH 44111	941-2271	
037.	KBDBG	Т	Dick W. Stuart	4498 Briarbanks Dr.	Fairview Park, OH 44126	331-8591	
038.	KBDBN	E	Bill Rieke	1440 E. Melrose	Westlake, OH 44145	333-6644	
039.	KB8DCS		Dave Germ	P 0 Box 352	North Olmsted, OH 44070	779-5533	
040.	KBDDY	G	Bill Schreiber	6 Sunrise Blvd.	Olmsted Twp., OH 44138	235-3913	
041.	KB8DEP	_	Warren Drew	31652 Electric Blvd.	Avon Lake, OH 44012	1-933-3048	
042.	NBDMK	E	Russ Pratley	12711 Broadway	Garfield Hts., OH 44125	- UL	
043.		A	Bob Leskovec	25884 Highland Rd.	Richmond Hts., OH 44143	486-5833 UL	-
044.			Tommie Murray	P.O. Box 08097	Cleveland, OH 44108	486-0033	
		A	Dick Foster	6817 Franke Rd.	Middleburg Hts., OH 44130	676-0165	
045.			Eugene Likes	4162 Canterbury Rd.	North Olmsted, OH 44070	734-7648 UL	
046.		T	Jack Zigon	P.O. Box 347001	Parma, OH 44134	351-2427	
		-	Paul Cornell	1340 Ford Rd.	Lyndhurst, OH 44124	442-7024	
048.		G		4707 Martin Dr.	North Olmsted, OH 44070	777-8785	
049.	NBEIJ	U	Ken rolling				

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050.	WBEPM	T	Joe Rozek	28405 North Park Dr.	North Olmsted, OH 44070	777-5574	
051.	KD8EQ	A	Dick S. Stuart	26921 Elizabeth Ln.	Olmsted Twp., OH 44138	235-2323	
052.	WA8ERA	T	Lee Georgia	5106 Montauk Ave.	Parma, OH 44134	888-5286	UL
053.	WBETC	G	Len Hettinger	3087 W. 115th St.	Cleveland, OH 44111	251-5936	1
054.	NBETQ	A	Dan Harlan	3418 Stanfield Dr.	Parma, OH 44134	845-5442	
055.	NBETY	A	Dave Kifer	10720 Aaron Dr.	Parma, OH 44130	885-2131	
056.	KD8EX	A	Tom Rudman	32651 Redwood Blvd.	Avon Lake, OH 44012	1-933-8753	
057.	W8FAZ	E	Joe Zelle	24124 Glenbrook Blvd.	Euclid, OH 44117	531-1597	
058.	N8FCX	A	Ron Packard	4931 Wake Robin Rd.	Mentor, OH 44060	1-257-2541	
059.	N8FDY	A	Tom Wilkinson	1337 Sloane Ave.	Lakewood, OH 44107	521-9519	
060.	N8FEG	G	Pete Gramuglia	6380 Elmdale	Brook Park, OH 44142	676-9027	
061.	N8FKS	T	Don Summer	26915 Westwood Ln.	Olmsted Twp., OH 44138	235-6295	
062.*	KA8FOE	1	Pauline Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999	
063.	WA8FOV	G	Ted Ermi	25895 John Rd.	Olmsted Twp., OH 44138	235-2698	
064.	N8FQQ	T	Tom Adams	11400 Linnet Ave.	Cleveland, OH 44111	251-3080	
065.	N8GJR	A	Jim Nestor	39114 Route 303	Grafton, OH 44044	1-355-8697	
066.	WB9GM0	G	Mike Hammel	2611 Shoreland Ave #7	Toledo, OH 43611	1-419-729-2323	
067.	WBGNB	G	Ed Ehrbar	4307 W. 137 St.	Cleveland, OH 44135	251-8234	
068.	N8GNJ	T	Steve Stroh	917 Salem Ave.	Elyria, OH 44035	1-365-2793	
069.	N8GNL	T	John Jailer	5685 Hickory Trail	North Ridgeville, OH 44039	1-327-7088	
070.	N8HAD	T	Skip Hockensmith	6229 Elmdale	Brook Park, OH 44142	267-9374	
071.	N8HHE	Α	Rob Szule	6032 Porter Rd.	North Olmsted, OH 44070	734-5963	
072.	N8H0B	G	Paul Hoegstrom	5962 S. Park Blvd.	Parma, OH 44134	884-8398	
073.*	N8HSE	T	Nan Kersten	2197 McKinley Ave.	Lakewood, OH 44107	221-6740	
074.	N8HVQ	T	Jack Andrisin	7730 Fleger Dr.	Parma, OH 44134	845-0068	
075.	N8HWK	G	Larry Galt	434-D West Lake St.	Addison, IL 60101	1-312-543-7132	
076.	N8HWP	T	Evelyn Godwin	882 Oelley Dr.	Cleveland, OH 44109	351-2463	
077.	NAIAA	T	Larry E. Tews	3341 W. 131 St.	Cleveland, OH 44111	476-8164	×
078.	NBIAN	G	Tom Donovan	2814 Commonwealth	Parma, OH 44134	843-6969	UL
079.	NSIAX	G	Cody Williams	9976 Fairtree Dr.	Strongsville, OH 44136	238-6034	
080.	N8ICD	T	Cliff Crabs	25575 Butternut Ridge Rd.	North Olmsted, OH 44070	777-4025	UL "
081.	NBIDA	T	Joe Molter	3842 Montevista Rd.	Cleveland Hts., OH 44121	291-5580	UL
082.	W3IGI	T	Bill Spring	389 Brantley Ln.	Brunswick, OH 44212	273-5723	
083.	W7IJ	E	Bill Rohrer	2235 Elmwood Dr.	Westlake, OH 44145	892-9472	
084.*	NBILL	T	Mary Lou Sarama	15591 Rademaker Blvd.	Brook Park, OH 44142	267-5083	
085.	OMISAW	A	Bob Sull	230 Moore Rd.	Avon Lake, OH 44012	1-933-4582	
086.	KASIMU	Α	Tony Romano	4837 E. 84th St.	Garfield Hts., OH 44125	271-6954	
087.*	NBINI	T	Kathy Hitesman	356 Bradley Rd.	Bay Village, OH 44140	871-3055	UL
088.*	NBINJ	T	Jason Hitesman	356 Bradley Rd.	Bay Village, OH 44140	871-3055	
089.	WD8INO	G	Steve Ferraro Jr.	3417 Marmore Ave.	Parma, OH 44134	741-2547	
090.	OI8W	E	Robert Allen	23305 Westchester Dr.	North Olmsted, OH 44070	734-0570	
091.	WD8IRG	A	Van Winkle	16417 Shelby Dr.	Brook Park, OH 44142	267-9063	
092.	NBIRS	T	Rob Gasparik	2321 Ralph Ave.	Cleveland, OH 44109	351-6125	
093.	WD8ISB	Ε	Dick Dell	8085 Wren Dr.	Macedonia, OH 44056	467-7733	UL
	NBITI	T	Andy Poling	4707 Martin Dr.	North Olmsted, OH 44070	777-8785	
	NBIUU	T	Gene Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999	
096.	N6JAM	T	Ron Lew	473 Snavely Rd.	Richmond Hts., OH 44143	381-3832	
097.	KD8JQ	E	Don Jason	715 Twin Oaks Blvd.	Medina, OH 44256	1-723-5492	F
098.	WBKBV	G	Joe Young	2218 E. 93rd St.	Cleveland, OH 44106	721-6397	UL
099.	W8KGA	G	Larry J. Stacik	12503 Carrington Ave.	Cleveland, OH 44135	941-4711	
	K8KGP	T	Tibor Gasparik	2321 Ralph Ave.	Cleveland, OH 44109	351-6125	4
101.	WD8KHU	T	Mark Woodworth	20239 Bonnie Bank Blvd.	Rocky River, OH 44116	331-6347	
102.	KC8KI	A	John Baddour	2801 Claque Rd.	North Olmsted, OH 44070	734-3778	
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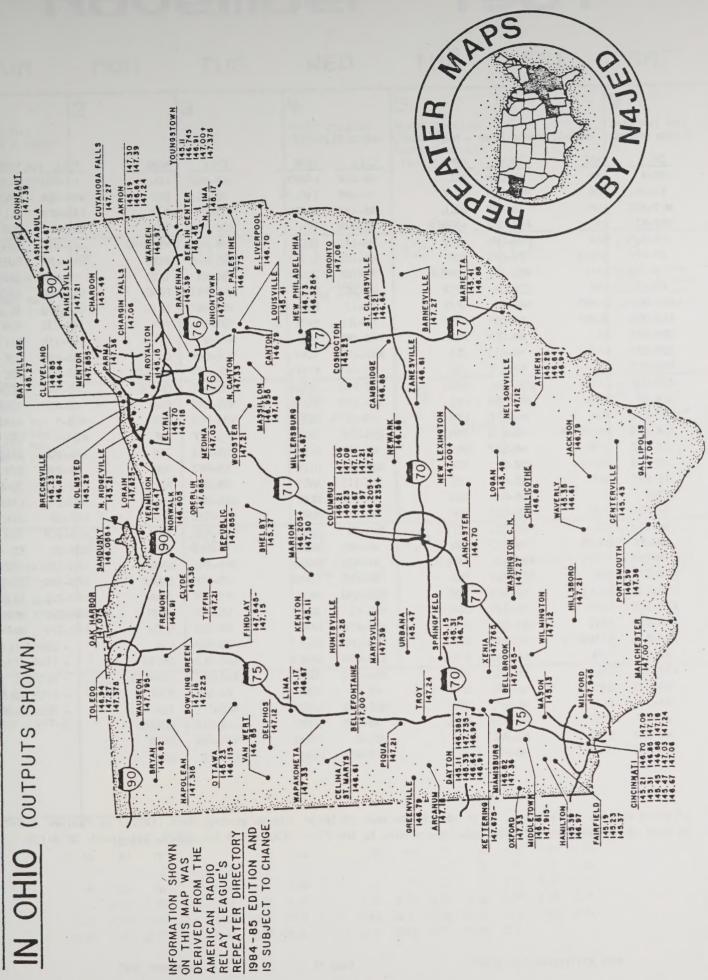
103.*	WD8KTC	T	Marie Johnson	6504 Edgehurst Dr.	Brook Park, OH 44142	676-5342	
104.	WD8LHK	Α	Bill Tarczy	16517 Morningstar Dr.	Strongsville, OH 44136	238-9073	UL
105.	KABLIH	T	Karen Counter	22560 Morton Ave. Apt #10	Fairview Park, OH 44126	779-4397	
106.	KA8LII	N	John Caranci	11507 Bradwell	Garfield Hts., OH 44125	662-9270	
107.	NBLL	Ε	Jim Schwabe	3050 Farnham Rd.	Richfield, OH 44286	1-659-9841	
108.	WD8LRZ	G	Larry Lanning	3528 Monte Vista Dr.	Brunswick, OH 44212	225-4607	
109.	WBLWY	А	John Mack	24601 Mitchell Dr.	North Olmsted, OH 44070	734-8917	
110.	NOSM	Ε	Steve Wolf	27132 Butternut Ridge Rd.	North Olmsted, OH 44070	777-1177	
111.	K8MBZ	A	Dave Jones	7630 Main St.	Olmsted Falls, OH 44138	235-3269	
112.	K8MGH	G	Lou Pierce	6344 Ridgeview Blvd.	N. Ridgeville, OH 44039	1-327-2206	
113.	W8MGX	G	Bob Strong	5851 Clearview Dr.	Parma Hts., OH 44130	843-6907	
114.	WD8MHL	G	Ray G. Maskow	10401 Linnet Ave.	Cleveland, OH 44111	671-0317	
115.	WD8MHR	A	Eric Benedict	12470 Albion Rd.	N. Royalton, OH 44133	237-8720	
116.	WBMW	E	Maynard Weston	4564 Park Edge Dr.	Fairview Park, OH 44126	734-4260	
117.	WB8NAQ	A	Bill Reed	3334 Brookdale Ave.	Parma, OH 44134	741-7071	
118.	KB8NW	A	Tedd Mirgliotta	16806 West 130 St.	Strongsville, OH 44136	237-2816	
119.	WASNXT	G	Ferd Nye Jr.	31497 Hilliard Blvd.	Westlake, OH 44145		
120.	WB8NXT	A	Neil Johnson	6504 Edgehurst Dr.	Brook Park, OH 44142	871-8098 676-5342	
121.			Tom Tillack				
	NQ80	Ε		2603 Oakdale Ave.	Lorain, OH 44055	1-244-5647	
122.	MASO MM	E	Evan Wieder	1231 Ranchland Dr.	Mayfield Hts., OH 44124	442-1784	
	WD80MW	A	Glenn Christman	1295 Summit Ave.	Lakewood, OH 44107	221-6538	
124.	K80PV	T	George Hodapp	13101 Yager Dr.	Strongsville, OH 44136	238-7663	
125.	N40SD	1	Chuck Sommer	4560 Park Edge Dr.	Fairview Park, OH 44126	734-9696	
126.	WD80Y0	A	Dave Ernest	4223 Columbia Rd.	North Olmsted, OH 44070	777-3694	
127.	WD8PAQ	A	Bob Gromen	17800 Marks Rd.	Columbia Sta., OH 44028	238-0977	
128.	KA8PEF	G	Joe Liszeski	8233 Avon Belden Rd.	N. Ridgeville, OH 44039	1-327-7938	
129.	W8PE V	G	Jim Malone	31235 Avon Rd.	Westlake, OH 44145	835-1206	UL
130.	K8PPZ	A	Tom Wisnor	27869 Sherwood Dr.	Westlake, OH, OH 44145	835-2288	
131.	K8QNK	A	Dick Scheuering	4867 Summerlane	Brooklyn, OH 44144	741-7121	
132.	KA8Q0Q	G	Larry Kominek	20349 Marian Ln.	Rocky River, OH 44116	333-9943	
133.	WD8RBX	Ε	Zen Bartosik	6305 Meadowbrook Ave.	Cleveland, OH 44144		UL
134.	WB8RGK	G	Tim O'Reilly	5515 Thornton Dr.	Parma, OH 44129	888-5618	
	KA8RKI	N	Tami Adams	11400 Linnet Ave.	Cleveland, OH 44111	251-3080	
136.	WB8RNI	A	Hank Hausmann	18456 Potomac Dr.	Strongsville, OH 44136	238-5881	
137.	K8RSH	A	Chuck Early	5943 Burns Rd.	North Olmsted, OH 44070	777-1595	
138.	K8RWR	T	John Pearl Jr.	5709 Northcliff Ave.	Cleveland, OH 44144	749-0759	
139.	K8RZP	G	John Pastor	322 Berea St.	Berea, OH 44017	234-4299	
140.	K8SCI	A	Rick Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999	
141.	WD8SDP	T	Lin Shaw	7780 Lewis Rd.	Olmsted Falls, OH 44138	235-3912	
142.*	KA8SL X	T	Chris Tetzlaff	23 Nelson Dr.	Silver Bay, MN 55614	-	
143.	WA8SNI	G	Charlie Kontras	13709 Wainstead Ave.	Cleveland, OH 44111	252-2367	
144.	K9SSL	Ε	Mike Walker	1204 Tulip Ct.	Brunswick, OH 44212	225-1744	UL
145.	NR8T	Ε	Tim Hitesman	356 Bradley Rd.	Bay Village, OH 44140	871-3055	UL
146.*	K8TKQ	T	Howard Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999	
147.	WA8TMK	Ε	Fred Helwig Jr.	26045 Akins Rd.	Columbia Sta., OH 44028	236-3477	
148.	KB8TT	Α	Dave Curry	887 E. 331st St.	Eastlake, OH 44094	942-5030	UL
149.	K8TTZ	Α	Bob Mills	6716 Bonna Ave.	Cleveland, OH 44103	431-9492	
150.	WB8UDA	Α	Fred S. Szabo	6142 Eavenson	Brook Park, OH 44142	-	UL
151.	KA8UFN	T	Ollie Bell-Bey	13513 Cranwood Park Blvd.	Garfield Hts., OH 44125-1822	475-7886	
152.	KA8UHL	T	Bob Laycook	P 0 Box 91757	Cleveland, OH 44101	321-6934	UL
153.	KBUID	G	Ron Diehl	40171 Jones Rd.	Wellington, OH 44090	1-647-3664	
154.	WB8UPA	Α	Russ Saepic	1861 Frost Circle	Brunswick, OH 44212	-	UL
155.	K8UTE	ſ	Basil L. Andrejko	19307 Maplewood St.	Cleveland, OH 44135	267-3433	

156.	WABVDG	Ε	Bill Berndsen	24213 Gessner Rd.	North Olmsted, OH 44070	779-0504 UL
157.	KABVDU	T		1743 Lares Lane	Brunswick, OH 44212	273-1914
158.	K8VJG	A		10699 Ridge Rd.	North Royalton, OH 44133	237-6718
159.	KABVYN	G		18317 Walnut Dr.	Strongsville, OH 44136	238-9319
160.	KASWAR	T	Joe Kluha	12954 Sprague Rd.	Parma, OH 44130	888-4617
161.	KA8WJH	A		3116 Becket Rd.	Cleveland, OH 44120	491-8040
162.	KANNE	G	ooc marker	25190 Deerfield Dr.	North Olmsted, OH 44070	777-6039
163.	WAWXR	A	deorge vivian	441 Bradley Rd.	Bay Village, OH 44140	835-8739
164.	AKBY	E	Mike Cauley	3802 Bramblewood	Brunswick, OH 44212	225-7438
165.	KW9Y	Ε	Don Hilderman	596 Canterbury Rd.	Bay Village, OH 44140	871-6024
	KABYQL	N	Dave Freeman	4008 West 204 St.	Fairview Park, OH 44126	333-4008 UL
166.		A	Guy Elder	18317 Walnut Dr.	Strongsville, OH 44136	238-9319
	K8YRN		John Slavik	906 Broadway Ave.	Bedford, OH 44146	439-8452
168.	WB8YTQ	G		2531 Canterbury Rd.	Westlake, OH 44145	835-9428
169.	NB8Z	Ε		3110 Klusner Ave.	Parma, OH 44134	843-2442
170.	KB8ZA	A		11028 Hawke Rd.	Columbia Station, OH 44028	1-748-2816
	KASZEP	r	Ann Wadsworth		Brooklyn, OH 44144	741-9174
172.	KD8ZK	A		4878 Autumn Ln.	Parma, OH 44129	- UL
173.	KA8ZRF	T	Jack Nilsson	6302 Ridgewood Ave.		835-8275
174.	KA8ZRG	T	David Hoffmann	30015 Sequoia Trail	Westlake, OH 44145	- UL
175.*	KA8ZUC	T	Diane Nilsson	6302 Ridgewood Ave	Parma, OH 44129	1-355-8697
176.*	KA8ZVK	T	Merilee Nestor	39114 Route 303	Grafton, OH 44044	
177.*	KA8ZVV	N	Mary Wolf	27132 Butternut Ridge Rd.	North Olmsted, OH 44070	777-1177
178.*	-		Donna Pearl	5709 Northcliff Ave.	Cleveland, OH 44144	749-0759
179.*	-		Tina Stroh	917 Salem Ave.	Elyria, OH 44035	1-365-2793
180.*	_		Michele Tews	3341 W. 131 St.	Cleveland, OH 44111	476-8164
181.	-		Richard Volker	29871 Cambridge	North Olmsted, OH 44070	779-5911
182.*	_		Pennie Wells	5955 Burns Rd.	North Olmsted, OH 44070	779-8999

^{*} Denotes a Family Member

Please let Pauline KA8FOE or Rick K8SCI know A.S.A.P. any corrections or changes in your listing.

2 METER AMATEUR RADIO REPEATERS



North Coast Amateur Radio Club - MINI ROSTER - Oct 21, 1987

CALL	NAME	CALL	NAME	CALL	NAME	CALL	NAME	CALL	NAME
KB8-A	DAN	K8-DBN	BILL	N8-HWK	LARRY	K8-MGH	LOU	K8-TTZ	808
K8-AAI	BOB	KB8-DCS	DAVE	N8-HWP	EVELYN	W8-MGX	BOB	WB8-UDA	FRED
ML 7-AEC	TOM	K8-DDY	BILL	N8-IAA	LARRY	WD8-MHL	RAY	KA8-UFN	OLLIE
IIA-88	PAT	KB8-DEP	WARREN	N8-IAN	TOM	WD8-MHR	ERIC	KA8-UHL	B08
ND8-AJF	DAN	N8-DMK	RUSS	N8-IAX	CODY	W8-MW	MAYNARD	K8-UID	RON
N8-ATV	JERRY	K8-DTS	808	N8-ICD	CLIFF	WB8-NAQ	BILL	WB8-UPA	RUSS
N8-AUH	DAVE	WB8-DTY	TOMMIE	N8-IDA	JOE	KB8-NW	TEDD	K8-UTE	BASIL
K8-AZ	TOM	KE8-DX	DICK	W3-IGI	BILL	WA8-NXT	FERD	WA8-VDG	BILL
KK8-B	DENNY	WA8-DYL	GENE	W7-IJ	BILL	WB8-NXT	NEIL	KA8-VDU	AL
KB8-BBU	JERRY	N8-DZ0	JACK	N8-ILL	MARY LOU	NQ8-0	TOM	K8-VJG	RON
KB8-BBZ	ED	W8-EFW	PAUL	WA8-IMO	B0B	NY8-0	EVAN	KA8-VYN	STEVE
KB8-BDY	NICK	N8-EIJ	KEN	KA8-IMU	TONY	WD8-0MW	GLENN	KA8-WAR	JOE
KB8-BEB	RON	W8-EPM	JOE	N8-INI	KATHY	K8-OPV	GEORGE	KA8-WJH	JOE
KA8-BJA	FRANK	KD8-EQ	DICK	N8-INJ	JASON	N4-0SD	CHUCK	K8-WNE	GEORGE
KE8-BN	MARK	WA8-ERA	LEE	WD8-INO	STEVE	WD8-0Y0	DAVE	W8-WXR	ROGER
KB8-BNC	RON	W8-ETC	LEN	W8-I0	808	WD8-PAQ	808	AK8-Y	MIKE
KB8-BPR	PATRICIA	N8-ETQ	DAN	WD8-IRG	VAN	KA8-PEF	JOE	KW9-Y	DON
(B8-BSC	JOHN	N8-ETY	DAVE	N8-IRS	R08	W8-PEV	JIM	KA8-YQL	DAVE
N8-BTB	STEVE	KD8-EX	TOM	WD8-ISB	DICK	K8-PPZ	TOM	K8-YRN	GUY
K8-BVI	ART	W8-FAZ	JOE	N8-ITI	ANDY	K8-QNK	DICK	WB8-YTQ	JOHN
AE8-C	SY	N8-FCX	RON	N8-IUU	GENE	KA8-QOQ	LARRY	NB8-Z	LARRY
W8-CDL	DAVE	N8-FDY	TOM	N6-JAM	RON	WD8-RBX	ZEN	KB8-ZA	JIM
W8-CEJ	MEL	N8-FEG	PETE	KD8-JQ	DON	WB8-RGK	TIM	KA8-ZEP	ANN
W8-CEM	CHUCK	N8-FKS	DON	W8-KBV	JOE	KA8-RKI	TAMI	KD8-ZK	ED
W8-CHA	STEVE	KA8-FOE	PAULINE	W8-KGA	LARRY	WB8-RNI	HANK	KA8-ZRF	JACK
13-88X	TOM	WA8-FOV	TED	K8-KGP	TIBOR	K8-RSH	CHUCK	KA8-ZRG	DAVE
KB8-CJJ	WALLY	N8-FQQ	TOM	WD8-KHU	MARK	K8-RWR	JOHN	KA8-ZUC	DIANE
KB8-CJK	JOHN	N8-GJR	JIM	KC8-KI	JOHN	K8-RZP	JOHN	KA8-ZVK	MERILEE
KB8-CJP	DAVE	WB9-GMO	MIKE	WD8-KTC	MARIE	K8-SCI	RICK	KA8-ZVV	MARY
KB8-CJQ	STARRETT	W8-GNB	EDDIE	WD8-LHK	BILL	WD8-SDP	LIN	- DON	NA PEARL
N8-CKV	PAUL	N8-GNJ	STEVE	KA8-LIH	KAREN	KA8-SLX	CHRIS	- TIN	A STROH
KA8-CKZ	BILL	N8-GNL	JOHN	KA8-LII	JOHN	WA8-SNI	CHARLIE	- MIC	HELE TEWS
N8-CQD	BILL	N8-HAD	SKIP	N8-LL	JIM	K9-SSL	MIKE	- RIC	H VOLKER
K8-CVZ	ED	N8-HHE	ROB	WD8-LRZ	LARRY	NR8-T	TIM		NIE WELLS
W8-CWT	KEN	N8-H0B	PAUL	W8-LWY	JOHN	K8-TKQ	HOWARD		
N8-DAD	BARB	N8-HSE	NAN	N08-M	STEVE	WA8-TMK	FRED		
K8-DBG	DICK	N8-HVQ	JACK	K8-MBZ	DAVE	KB8-TT	DAVE		

If there are any corrections, or if you change your callsign, please contact Rick (K8SCI) or Pauline (KA8FOE) as soon as possible at 779-8999. Or drop a note to the Club: NCARC, P O Box 30529, Cleveland, OH 44130.

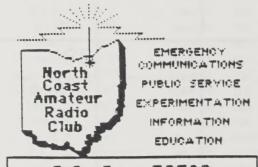
November 1987

SUN	MON	TUE	WED	THU	FRI	SAT
1 NCARES Mtg 16:00 a K8SCI's Informal Net 21:00 - 145.29	2	3	4 NCARC Classes 19:00 - 21:30	5 NCARC Trustees Meeting NCARC General Meeting	б	7 Informal Net 10:00 - 28.4
8 Fort Wayne IN Hamfest Informal Net 21:00 - 145.29	g	10	11 Veteran's Day NCARC Classes 19:00 - 21:30	12	13	NCARC Foxhunt - N.O. Library Informal Net 10:00 - 28.4
Deadline for Communicator Informal Net 21:00 - 145.29	16	17	18 NCARC Classes 19:00 - 21:30	19 ARRL Video Westar 4 16:00	20	2 1 Informal Net 10:00 - 28.4
22 Cle. Classic Pub. Serv. 9:00 Informal Net 21:00 - 145.29	23	24	25 NCARC Classes 19:00 - 21:30	26	27 ThanKsgiving Day	28 Informal Net 10:00 - 28.4
29 Informal Net 21:00 - 145.29	30					

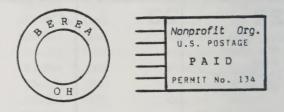
October				198	37			I	Dece	e dme	er :	1987	7
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25	26	27	28	29	30	31	27	28	29	30	31		

NORTH COAST AMATEUR RADIO CLUB - 1987 CALENDAR YEAR

OFFICERS	TRUSTEES
PresidentTim Hitesman NR8T871-3055 Vice PresidentBob Mills K8TTZ431-9492 TreasurerJim Nestor N8GJR1-355-8697 SecretaryDave Hoffman KA8ZRG835-8275	Dan N8ETQ845-5442 Tom KD8EX1-933-8753 Pauline KA8FOE779-8999 Dick WD8ISB467-7733 Steve WD8INO741-2547 Steve NO8M777-1177
POSITIONS	Ray WD8MHL671-0317
ARRL Club Liason Rick K8SCI779-8999 ARRL VE LiasonDan KB8A267-5083 AwardsFred WB8UDAUnlisted	Rick K8SCI779-8999
ContestDave KB8TT942-5030	VOLUNTEER EXAMINERS
Newsletter Editor VOLUNTEER NEEDED!!!	Dan KB8A267-5083
EducationRay WD8MHL671-0317	Dan WD8AJF1-748-2816
Field DayRon KB8BEB235-2882 Rick K8SCI and Ray WD8MHL	Pete W1BKZ951-9360 Dick KD8EQ235-2323
FinanceMike K9SSL225-1744	Heinz KC8F734-6890
MembershipPauline KA8FOE779-8999	Bob W8IO734-0570
NCARESRick K8SCI779-8999	Dick WD8ISB467-7733
Net CoordinatorDave N8ETY885-2131	Don KD8JQ1-723-5492
Programs <u>VOLUNTEER NEEDED!!!</u>	Dave AI8M1-324-4574
Public RelationsSteve NO8M777-1177	Steve NO8M777-1177
RefreshmentsPauline KA8FOE779-8999	Mike K9SSL225-1744
SunshinePauline KA8FOE779-8999	Tim NR8T871-3055
TechnicalTom N8FQQ251-3080	Shirley KA8Y562-5858



P.O. Box 30529 Cleveland, Ohio 44130



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